

A TALE OF TWO TANKS

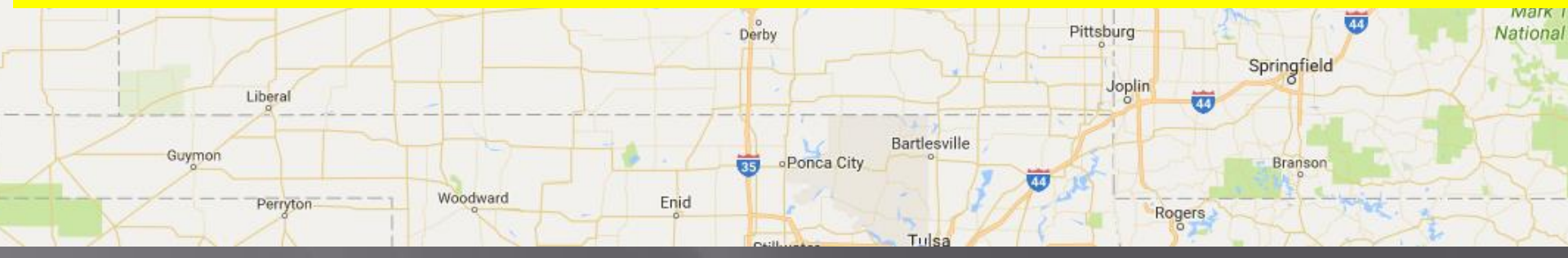
A Cautionary Tale

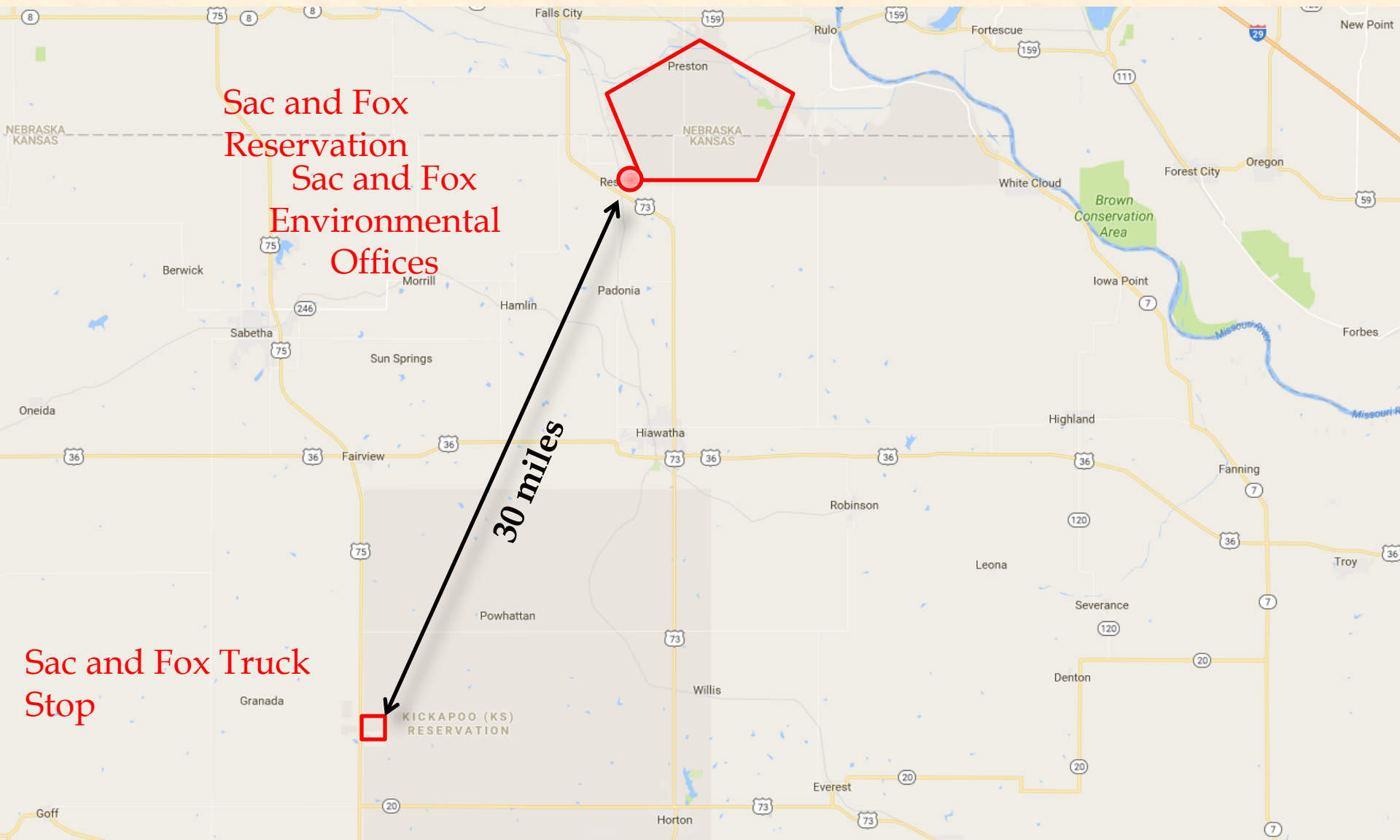
Mark Junker
Tribal Response Coordinator
Sac and Fox Nation of Missouri in KS & NE

Winnebago Nation



Sac and Fox Reservation and the Sac and Fox Truck Stop





Sac and Fox
Reservation
Sac and Fox
Environmental
Offices

Sac and Fox Truck
Stop

30 miles

2015

July

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

August

Su	Mo	Tu	We	Th	Fr	Sa
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

September

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

October

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

November

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

December

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

2016

January

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

February

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

March

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

April

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

May

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

June

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

July

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

August

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

September

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

July 21, 2015

- July 20, 2015 Phone call from staff stating tank alarm was going off at approximately 9:30 p.m. Amanda responded by having them check fuel levels and the north tank was below alarm level and needed fuel to siphon from the South tank. A few minutes later staff calls back and says alarm is still going off,

Amanda then has them check water levels.

At this time we now have a vehicle in the parking lot that will not stay running. Immediately all pumps are shut off at approximately 9:35p.m. Any car fueling with midgrade fuel during that 5 minute period would not run. Police, fire, emergency management and all other personnel needed responded. Parking lot was evacuated for everyone's safety until we could assess the situation.

We knew water was coming from somewhere but had no idea where from.

On site personnel spent about an

hour trying to determine water source. Our tank monitoring print out showed no water in the fuel at the beginning of the day

July 22, 2015

That H₂O in my gas tho!

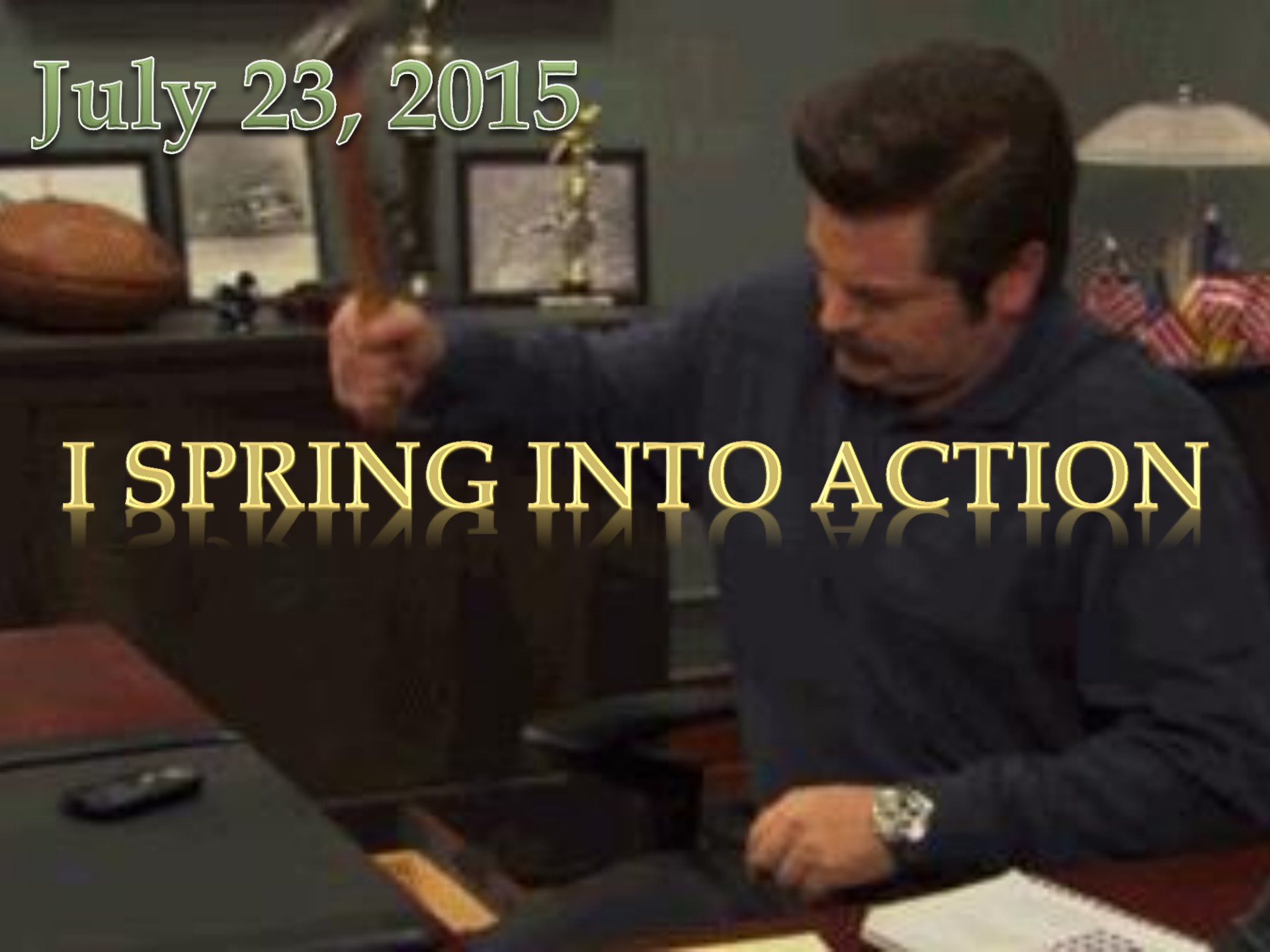
July 22, 2015



Robert Trump, brought a Frac tank and pumped approximately 19,000 gallons of fuel and water into it.

July 23, 2015

I SPRING INTO ACTION



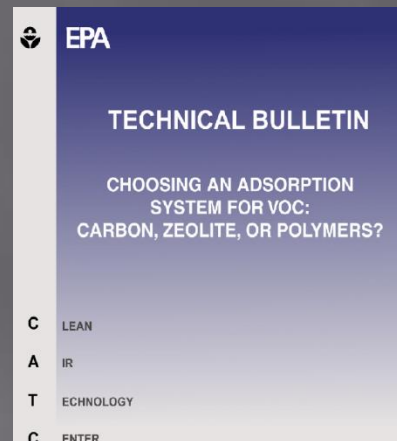
July 24, 2015



July 27, 2015

Results of fuel and water samples come back from Pace Analytical.

Fuel can be recovered but need to determine who will recover fuel from Frac tank and how to properly handle the contaminated water. Activated carbon vs. reclaim facility.



ANALYTICAL RESULTS

Project: KS Waters SAC & FOX

Pace Project No.: 60199233

Sample: A-GW Lab ID: 60199233001 Collected: 07/24/15 11:00 Received: 07/24/15 14:40 Matrix: Water

Comments: • Samples requiring thermal preservation were received outside of recommended temperature limits of 0-6 degrees Celsius.
• This sample was received in a packed jar that contained headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	11.0	ug/L	10.0	1	07/24/15 15:50	07/27/15 11:47	7440-38-2	
Barium	1600	ug/L	10.0	1	07/24/15 15:50	07/27/15 11:47	7440-39-3	
Cadmium	ND	ug/L	5.0	1	07/24/15 15:50	07/27/15 11:47	7440-43-9	
Chromium	ND	ug/L	5.0	1	07/24/15 15:50	07/27/15 11:47	7440-47-3	
Lead	5.3	ug/L	5.0	1	07/24/15 15:50	07/27/15 11:47	7439-92-1	
Selenium	ND	ug/L	15.0	1	07/24/15 15:50	07/27/15 13:01	7782-49-2	
Silver	ND	ug/L	7.0	1	07/24/15 15:50	07/27/15 11:47	7440-22-4	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	1	07/27/15 09:00	07/27/15 13:49	7439-97-6	M1
8260/OA1 UST, Water Analytical Method: EPA 8260/OA1								
Gasoline Range Organics	123	mg/L	50.0	100		07/27/15 16:16		
Benzene	15100	ug/L	100	100		07/27/15 16:16	71-43-2	
Toluene	36600	ug/L	500	500		07/27/15 16:31	108-88-3	
Ethylbenzene	2450	ug/L	100	100		07/27/15 16:16	100-41-4	
Xylene (Total)	12300	ug/L	300	100		07/27/15 16:16	1330-20-7	
Surrogates								
Toluene-d8 (S)	102	%	80-120	100		07/27/15 16:16	2037-26-5	HS
4-Bromofluorobenzene (S)	97	%	80-120	100		07/27/15 16:16	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	82-119	100		07/27/15 16:16	17060-07-0	
Preservation pH	1.0		0.10	100		07/27/15 16:16		
1010 Flashpoint, Closed Cup Analytical Method: EPA 1010								
Flashpoint	>210	deg F	78.0	1		07/27/15 10:00		
4500H+ pH, Electrometric Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		07/27/15 10:30		H6

July 27, 2015

Scoping the Tar



A Pile of Grave



August 6, 2015

Estimates come from Robert Trump with Adler to determine procedure of disposing of contaminated water.

August 11, 2015

Tribal Council approved to have midgrade fuel recovered from Frac tank by HAAG oil and to have contaminated water hauled to a reclaim facility.

THE RECLAMATION FACILITY

DELIVERY TICKET #

15211

A division of Magellan Midstream Partners, L.P.
1090 Sunshine Road, Kansas City, KS 66115
Phone (913) 647-8580 Fax (913) 647-8578

Date: 8/19/2015
Time: 11:40

Shipper Information

SHIPPER		BOL or Manifest #		TRANSPORTER	
Total Petroleum Sol.	1	Powhattan, KS	111	Robertson Williams	1
		Sac & Fox			

Volume Information

Classification	
PCW	
FT	IN 1/8
Opening Gauge	19 6 7
FT	IN 1/8
Closing Gauge	20 4 2

Drum Information

Received into Tank	Total Drums Received
544	N/A Drums
Volume in	Classification
42 gallon Barrels	N/A
4829	Handling Fee
5027	0 Drums
0	Disposal Fee
197	0 Drums
197	
0	
0	

Water Usage

(Rinse water added)

Tanker Volume

(Estimated original tanker volume)

Total Liquid Received

(measured tank addition)

Unpumpable Solids

(Settled solid content)

Estimated Oil Deduction

(Good oil/No cost)

Total Billed Volume

197 BBL's

8674

Comments

Unload time
(hours)

1


Magellan Representative


Transporter Representative

August 18, 2015

August 18, 2015 2000 gallons of fuel is recovered from frac tank and blended with 1250 gallons of premium fuel to make fuel the correct octane level. (Attachment 5)

August 19, 2015

August 19, 2015 Adler hauls contaminated water to reclaiming facility (Attachment 6). Also delivers a 300 gallon bladder for the ongoing process of reclaiming fuel from ruptured tank. Waiting on estimate to purchase a diaphragm pump and a compressor.

At this time we know that there is still fuel in the ground because we have stuck the tank. Our thought is that it is in overfill tanks and that we will recover most of the missing fuel.

Ongoing, will now start to pump bi-weekly out of ground to recover any fuel missing. Will store in bladder, let fuel separate from water and keep track of all product recovered each time. This procedure could take up to 12 months or until we can no longer recover any more fuel. After a period of time when there is no more recovery of product we will need to have soil tested.

At this time we are possibly considering properly abandoning the North ruptured tank which is no longer in use.

August 27, 2015

- August 27, 2015 Ethan with PEI capped off manifold to south tank so we could start operating north tank. Reclaimed 442 gallons of fuel. (tank reading) (Attachment 7)

August 28, 2015

- August 28, 2015 Josh with PEI flushed fuel lines and recovered 150 gallons of fuel. Remaining gallons of fuel unaccounted for now totaling 746 gallons.

September 21, 2015

- Estimate received 9-21-2015 from Total Petroleum Services for Consultant, Geologist and site characterization. Waiting for Tribal Councils approval to continue with clean up/compliance efforts and free product recovery.

November 19, 2015

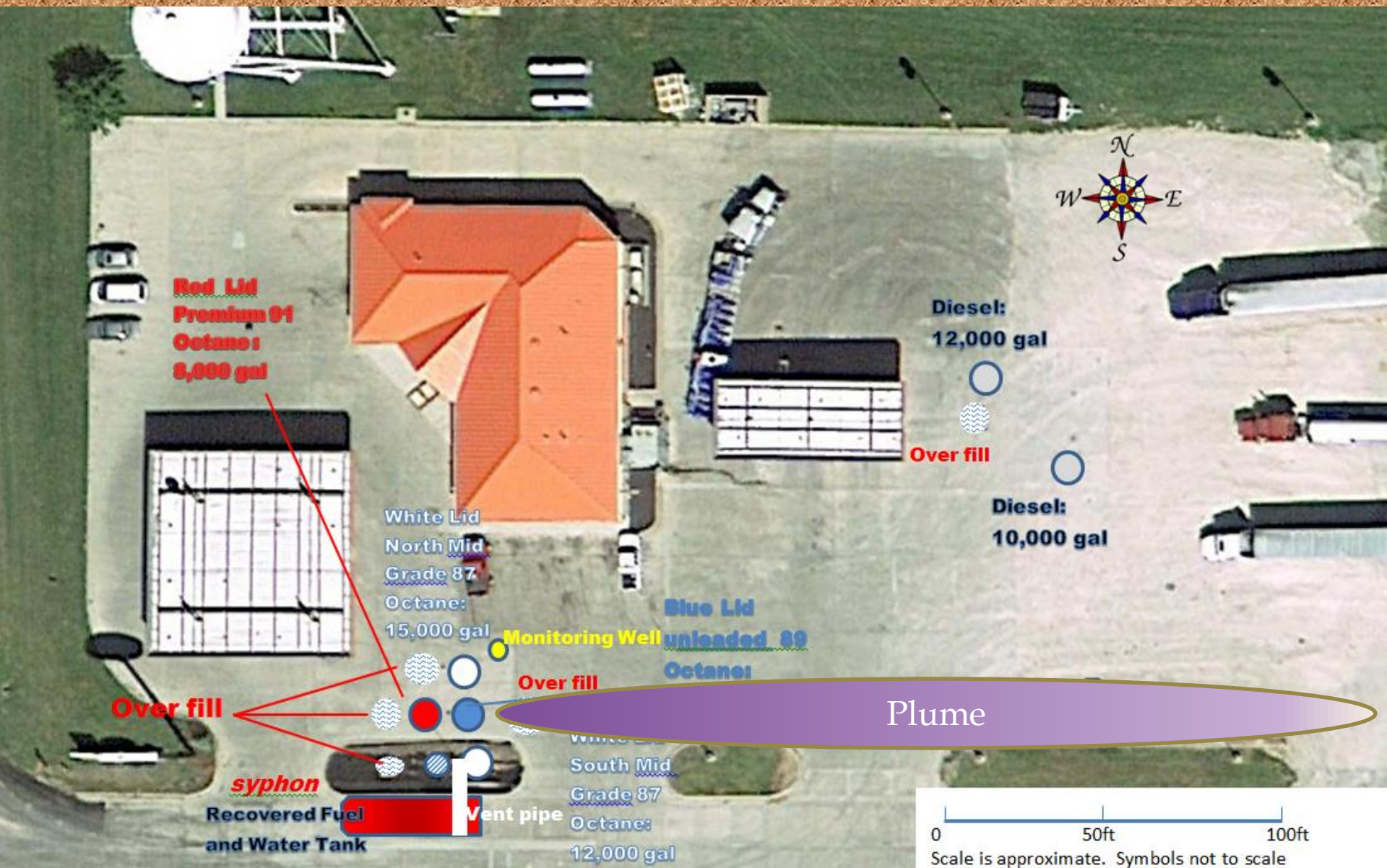
A geologist wearing a high-visibility yellow jacket and blue jeans is standing next to a white pickup truck. The truck's back door is open, revealing various pieces of equipment inside, including a red fire extinguisher and a red container. A large black hose or pipe is visible extending from the truck. In the background, there is a building with a red roof and a clear blue sky.

Geologists take analytical samples for testing and drill for 4 Temporary Piezometers.



November 19, 2015

Appears
contamination
is within the
Truck Stop
property.



January 18, 2016

- We still have not received any results from analytical testing or piezometers. Still no response on Xerxes warranty.

February 16, 2016

- Received Site Investigation Report of general soil characteristics of the subsurface and initial impacts to the soil and groundwater due to failing gasoline underground storage tank. Terranext also provided cost to install 5 permanent monitoring wells, collect groundwater samples, complete an initial conceptual site model (CSM), screen and model groundwater data to determine soil vapor inhalation risk at Sac and Fox Truck Stop.

February 29, 2016

- Meeting onsite at Sac and Fox Truckstop to discuss next steps and overall plan to continue with finalization of remediation and repair or abandonment of ruptured fuel tank. In attendance were PEI, Crawford and Company, Robert Trump Total Petroleum Services, Chris Kinn Geologist, MAC Corp., Lisa Montgomery Sac and Fox EPA, Gary Bahr Sac and Fox Tribal Council, Theresa Armbruster Sac and Fox Truck Stop Manager, Amanda Kramer Sac and Fox Asst. Manager and VIA phone Anita Ketola ACE Insurance. It was unanimous by all in attendance that the only way to determine the cause of the ruptured fuel tank would be to investigate the site. After determining the cause, being impact or defect then the decision will be made to either repair the existing Xerxes double wall tank with a 30 year warranty which was installed in 1998 and have it recertified or properly abandon the tank which would be the safest option and install a new tank in a new site. While the tank site is open we will be prepared to deal with free product, define plume and install wells. Initially 5 wells were suggested but was determined 2 would be sufficient. All work pending estimates and approval from Insurance Companies.

March 21, 2016

- March 21, 2016 Received estimate to repair ruptured fuel tank.

April 20, 2016

- April 20, 2016 Robert Trump Total Petroleum Services responds to Region 7.

April 22, 2016

- April 22, 2016 Insurance needing a breakdown of proposed estimate and an estimate for a replacement tank from M.A.C. Corp.

May 11, 2016

- May 11, 2016 Currently waiting for Estimates to install new tank if that determination is made immediately following the excavation of the northern area of the tank exposing the ruptured tank.

May 17, 2016

- May 17, 2016 Received estimate from Randy Dolifka PEI for new tank not sure of status on estimate from Robe1i Andrew MAC Corp.

May 20, 2016

- May 20, 2016 Received revised estimate from M.A.C. Corp.
-

May 25, 2016

Tribal Council approved the excavation work proposed by M.A.C. Corp. Need to contact Robert Andrew to confirm a start date.

June 08, 2016

- June 8, 2016 Robert Andrew, M.A.C. Corp. still trying to coordinate with

XERXES. June 16, 2016

- June 16, 2016 M.A.C. Corp has a start date July 11, 2016 need to confirm with all involved.

June 20, 2016

- June 20, 2016 Confirmed with M.A.C. Corp. Everyone would be available for July 11, 2016 start date.

June 21, 2016

June 21, 2016 contacted Robert Trump about providing Region 7 with an acceptable form of reporting.

July 05, 2016: Repeat Performance



July 11, 2016

Finally Breaking Ground















July 25, 2016

OOOps!











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1-800-421-7471

www.adlerrentals.com



July 28, 2016



July 29, 2016





ADLER

1-800-421-7471
www.adlerrentals.com

August 16, 2016

Some Resolution

Sac and Fox Water Tower



Mark.junker@sacfoxenviro.org

785-742-4706